

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

Docket Number (Optional) 02560034	Application Number 09/633,122
Applicant(s) T. Rappaport et al.	
Filing Date 8/4/00	Group Art Unit

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
Aysel	1	4,675,147	6-23-87	Schaefer et al.			4-6-83
Aysel	2	4,736,453	4-5-88	Schloemer			12-10-85
Aysel	3	4,885,694	12-5-89	Pray et al.			4-29-87
Aysel	4	5,111,392	5-5-92	Malin			6-9-89
Aysel	5	5,119,307	6-2-92	Blaha et al.			12-22-89
Aysel	6	5,239,487	8-24-93	Horejsi et al.			10-24-90
Aysel	7	5,293,640	3-8-94	Gunmar et al.			
Aysel	8	5,307,261	4-26-94	Maki et al.			6-28-91
Aysel	9	5,337,149	8-9-94	Kozah et al.			11-12-92
Aysel	10	5,339,184	8-16-94	Tang			6-15-92
Aysel	11	5,375,123	12-20-94	Andersson et al.			2-5-93

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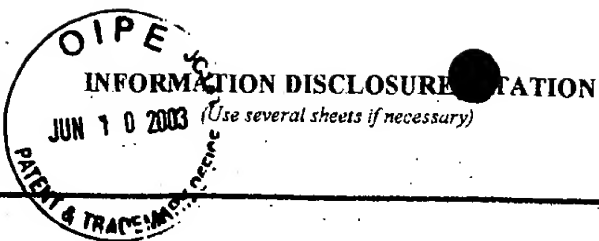
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REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER Aysel Shuron	DATE CONSIDERED 3/5/04
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*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
Ayel	12	5,394,522	2-28-95	Sanchez-Frank et al.			9-13-93
Ayel	13	5,450,615	9-12-95	Fortune et al.			12-22-93
Ayel	14	5,458,123	10-17-95	Unger			4-29-94
Ayel	15	5,465,390	11-7-95	Cohen			2-12-93
Ayel	16	5,482,050	1-9-96	Smokoff et al.			2-17-94
Ayel	17	5,485,568	1-16-96	Venable et al.			10-8-93
Ayel	18	5,491,644	2-13-96	Pickering et al.			9-7-93
Ayel	19	5,491,837	2-13-96	Haartsen			3-7-94
Ayel	20	5,493,679	2-20-96	Virgil et al.			10-29-93
Ayel	21	5,515,269	5-7-96	Willis et al.			11-8-93
Ayel	22	5,528,518	6-18-96	Bradshaw et al.			10-25-94

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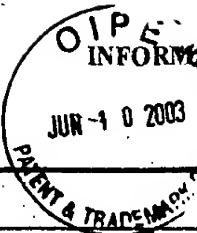
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Ayel	23	5,539,665	7-23-96	Lamming et al.			7-25-94
Ayel	24	5,553,312	9-3-96	Gathey et al.			6-20-94
Ayel	25	5,553,620	9-10-96	Snider et al.			5-2-95
Ayel	26	5,555,354	9-10-96	Strasnick et al.			3-23-93
Ayel	27	5,561,841	10-1-96	Markus			
Ayel	28	5,564,070	10-8-96	Want et al.			7-30-93
Ayel	29	5,594,946	1-14-97	Menich et al.			2-28-95
Ayel	30	5,598,532	1-28-97	Liron			10-21-93
Ayel	31	5,625,827	4-29-97	Krause et al.			12-23-94
Ayel	32	5,636,344	6-3-97	Lewis			8-22-91
Ayel	33	5,689,355	11-18-97	Okubo et al.			7-1-96

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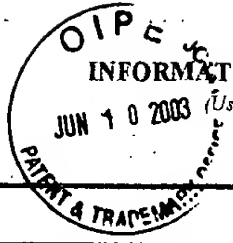
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*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>Aysel</i>	34	5,761,093	6-2-98	Urbish et al.			5-8-97
<i>Aysel</i>	35	5,794,128	8-11-98	Brockel et al.			9-20-95
<i>Aysel</i>	36	5,799,154	8-25-98	Kuriyan			6-27-96
<i>Aysel</i>	37	5,809,282	8-15-98	Cooper et al			6-7-95
<i>Aysel</i>	38	5,815,395	9-29-98	Hart et al.			6-29-95
<i>Aysel</i>	39	5,828,960	10-27-98	Tang et al.			3-31-95
<i>Aysel</i>	40	5,831,610	11-3-98	Tonelli et al.			2-23-96
<i>Aysel</i>	41	5,832,389	11-3-98	Dent			4-3-96
<i>Aysel</i>	42	5,861,887	1-19-99	Butler et al.			12-5-95
<i>Aysel</i>	43	5,867,112	2-2-99	Kost			5-14-91
<i>Aysel</i>	44	5,877,777	3-2-99	Colwell			4-7-97

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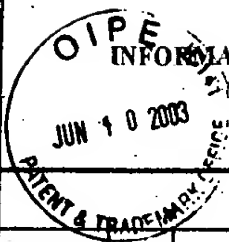
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*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
Ayel	45	5,878,328	3-2-99	Chawla et al.			12-21-95
Ayel	46	5,907,850	5-25-99	Krause et al.			1-21-97
Ayel	47	5,917,808	6-29-99	Kosbab			1-17-97
Ayel	48	5,923,850	7-13-99	Barroux			6-28-96
Ayel	49	5,926,762	7-20-99	Arpee et al.			5-17-96
Ayel	50	5,940,196	8-17-99	Piehler et al.			5-16-97
Ayel	51	5,945,976	8-31-99	Iwamura et al.			12-10-96
Ayel	52	5,948,055	9-7-99	Pulsipher et al.			8-29-96
Ayel	53	5,949,335	9-7-99	Maynard			4-14-98
Ayel	54	5,949,988	9-7-99	Feisullin et al.			4-3-97
Ayel	55	5,953,669	9-14-99	Stratis et al.			12-11-97

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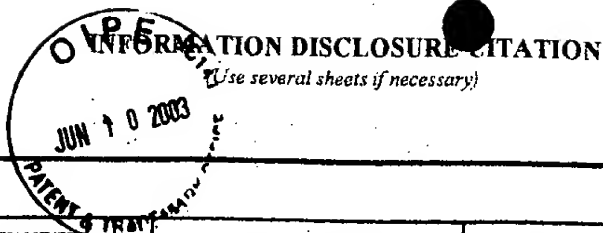
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*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
Ayal	56	5,963,867	10-5-99	Reynolds et al.			8-16-95
Ayal	57	5,970,406	10-19-99	Komara			12-31-96
Ayal	58	5,987,328	11-16-99	Ephremides et al.			4-24-97
Ayal	59	6,006,021	12-21-99	Tognazzini			7-1-96
Ayal	60	6,018,625	1-25-00	Hayball et al.			8-27-97
Ayal	61	6,021,316	2-1-00	Heiska et al.			
Ayal	62	6,032,105	2-29-00	Lee et al.			7-31-97
Ayal	63	6,038,547	3-14-00	Casto			1-7-98
Ayal	64	6,044,273	3-28-00	Tekinay			12-10-96
Ayal	65	6,058,102	5-2-00	Drysdale et al			11-6-98
Ayal	66	6,058,262	5-2-00	Kawas et al.			4-18-97

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Applicant(s)

T. Rappaport et al.

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8/4/00

Group Art Unit

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
Ayal	67	6,059,842	5-9-00	Dumarot et al.			4-14-98
Ayal	68	6,061,722	5-9-00	Lipa et al.			12-23-96
Ayal	69	6,075,541	6-13-00	Maclinovsky			11-7-97
Ayal	70	6,088,522	7-11-00	Lee et al.			7-31-97
Ayal	71	6,104,699	8-15-00	Holender et al.			
Ayal	72	6,108,309	8-22-00	Cohoe et al.			12-8-97
Ayal	73	6,111,857	8-29-00	Soliman et al.			9-11-97
Ayal	74	6,122,083	9-19-00	Ohta et al.			10-3-94
Ayal	75	6,148,010	11-14-00	Sutton et al.			6-24-98
Ayal	76	6,199,032	3-6-01	Anderson			7-22-98
Ayal	77	6,204,813	3-20-01	Wadell et al.			2-20-98

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>Ayel</i>	78	6,208,833	3-27-01	Preschutti et al.			6-24-97
<i>Ayel</i>	79	6,229,540	5-8-01	Tonelli et al.			10-13-98
<i>Ayel</i>	80	6,253,086	6-26-01	Parantainen et al.			3-25-99
<i>Ayel</i>	81	6,285,377	9-4-01	Greenbaum et al.			6-26-97
<i>Ayel</i>	82	6,289,203	9-11-01	Smith et al.			2-25-98
<i>Ayel</i>	83	6,317,599	11-13-01	Rappaport et al.			5-26-99
<i>Ayel</i>	84	6,326,987	12-4-01	Alexander			12-19-00
<i>Ayel</i>	85	6,330,005	12-11-01	Tonelli et al.			10-6-99
<i>Ayel</i>	86	6,311,144	10-30-01	Abu El Ata			7-31-98
<i>Ayel</i>	87	6,337,688	1-8-02	Berstis			1-29-99
<i>Ayel</i>	88	6,338,031	1-8-02	Lee et al.			9-23-99

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U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>Apel</i>	89	6,356,758	3-12-02	Almeida et al.			12-31-97
<i>Apel</i>	90	6,393,432	5-21-02	Flansburg et al,			6-2-99
<i>Apel</i>	91	6,408,312	6-18-02	Forthman et al.			8-30-99
<i>Apel</i>	92	6,442,507	8-27-02	Skidmore et al.			12-29-98
<i>Apel</i>	93	6,470,195	10-22-02	Meyer			10-31-00
<i>Apel</i>	94	6,487,417	11-26-02	Rossoni et al.			11-24-99
<i>Apel</i>	95	6,493,679	12-10-02	Rappaport et al.			5-26-99
<i>Apel</i>	96	6,496,290	12-17-02	Lee			12-17-98
<i>Apel</i>	97	6,499,006	12-24-02	Rappaport et al.			7-14-99
<i>Apel</i>	98	6,505,045	1-7-03	Hills et al.			4-10-00
<i>Apel</i>	99	5,586,254	12-17-96	Kondo			

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Apel	100	6,085,335	7-4-00	Djoko et al.			12-31-97
Apel	101	5,710,758	1-20-98	Soliman et al.			9-29-95
Apel	102	5,821,937	10-13-98	Tonelli et al.			8-12-96
Apel	103	5,774,669	6-30-98	George et al.			7-28-95
Apel	104	5,802,146	9-1-98	Dulman			11-22-95
Apel	105	5,825,759	10-20-98	Liu			7-24-95
Apel	106	5,845,124	12-1-98	Berman			5-1-96
Apel	109	6,199,032	3-6-01	Anderson			7-22-98
Apel	110	5,467,441	11-14-95	Stone et al.			10-6-94
Apel	111	6,243,772	6-5-01	Ghori et al.			1-31-97
Apel	112	5,994,984	11-30-99	Stancil et al.			5-29-98

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EXAMINER

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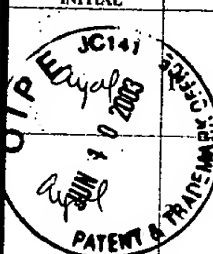
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*EXAMINER INITIAL	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)
	P. Bahl, V. Padmanabhan, and A. Balachandran, "A Software System for Locating Mobile Users: Design, Evaluation, and Lessons," Microsoft Technical Report, April 2000
<i>Ayal</i>	G. Durgin, T.S. Rappaport, H. Xu, Measurements and Models for Radio Path Loss and Penetration Loss in and Around Homes and Trees at 5.85 GHz," IEEE Transactions on Communications, vol. 46, no. 11, November 1998.
<i>Ayal</i>	C.M. Peter Ho et al., "Antenna Effects on Indoor Obstructed Wireless Channels and a Deterministic Image-Based Wide-Band Propagation Model for In-Building Personal Communications Systems," International Journal of Wireless Information Networks, Vol. 1, No. 1, 1994.
<i>Ayal</i>	S. Kim et al., "Radio Propagation Measurements and Predictions Using Three-dimensional Ray Tracing in Urban Environments at 908 MHz and 1.9 GHz," IEEE Transactions on Vehicular Technology, vol. 48, no. 3, May 1999
<i>Ayal</i>	T.S. Rappaport et al., "Use of Topographic Maps with Building Information to Determine Antenna Placements and GPS Satellite Coverage for Radio Detection and Tracking in Urban Environments," MPRG Technical Report MPRG-TR-95-14, Virginia Tech, September 1995
<i>Ayal</i>	R.K. Morrow, Jr. and T.S. Rappaport, "Getting In," Wireless Review Magazine, March 2000.
<i>Ayal</i>	Wireless Valley Communications, Inc., "SitePlanner 3.16 for Windows 95/98/NT User's Manual," Software User's Manual, pp.5-148 to 5-156, 1999.
<i>Ayal</i>	M. Panjwani et al., "Interactive Computation of Coverage Regions for Wireless Communication in Multifloored Indoor Environments," IEEE Journal on Selected Areas in Communications, Vol. 14, No. 3, April 1996.
<i>Ayal</i>	L. Piazzzi and H.L. Bertoni, "Achievable Accuracy of Site-Specific Path-Loss Predictions in Residential Environments" IEEE Transactions on Vehicular Technology, vol. 48, no. 3, May 1999.
<i>Ayal</i>	T.S. Rappaport et al., "Wireless Communications: Past Events and a Future Perspective", IEEE Communications Magazine, May 2002.
<i>Ayal</i>	T.S. Rappaport et al., "Radio Propagation Prediction Techniques and Computer-Aided Channeling Modeling for Embedded Wireless Microsystems," ARPA Annual Report, MPRG Technical Report MPRG-TR-94-12, Virginia Tech, Jul 1994.
<i>Ayal</i>	T.S. Rappaport et al., "Use of Topographic Maps with Building Information to Determine Antenna Placements for Radio Detection and Tracking in Urban Environments," MPRG Technical Report MPRG-TR-95-14, Virginia Tech, November 1995

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Applicant(s)		T. Rappaport et al.	
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- 15 T.S. Rappaport, "wireless Communications: Principles and Practice" Second Edition, Prentice Hall, 2002.
- 16 T.S. Rappaport et al., "Use of Topographic Maps with Building Information to Determine Antenna Placements and GPS Satellite Coverage for Radio Detection and Tracking in Urban Environments," MPRG Technical Report MPRG-TR-95-14, Virginia Tech, September 1995.
- 17 T.S. Rappaport et al., "Indoor Path Loss Measurement for Homes and Apartments at 2.4 and 5.85 GHz," private report produced for Motorola, December 16, 1997.
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INFORMATION DISCLOSURE CITATION

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Docket Number (Optional)

02560034AA

Application Number

09/633,122

Applicant(s)

T. Rappaport et al.

Filing Date

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